Serial No.: 09/504,660

Filed: February 14, 2000

Attorney Docket No.: RTN2-047PUS

(formerly 07206-047001)

layer having a lattice constant different from the lattice constant of the substrate; a Schottky layer disposed over the channel layer, the Schottky layer having a lattice constant different from the lattice constant of the substrate.

With regard to point (1) above, it is noted that layer 107 is doped and therefore is not a resistive layer.

With regard to point (2), enclosed with the last response was Figure 1.6 of a book entitled: Indium Phosphide and Related Materials: Processing, Technology, and Device; editor Avisay Katz, published 1992. Such Figure clearly shows that lattice constant of a material is a function of the <u>COMPOSITION</u> of the material. Nothing in Onda recognizes or suggests selecting the lattice mismatches claimed in the present application. The materials set forth in Onda will not have these mismatches since there is no designation in Onda of any specific <u>COMPOSITION</u> of the material to produce the claimed lattice constant mismatches. Nothing in Onda suggest having the claimed mismatch so there is nothing disclosed in Onda which leads one, or describes to one, or to put one in possession of the claimed invention which include these lattice mismatches. In summary, to obtain the claimed lattice mismatches requires one to use materials having specific <u>COMPOSITIONS</u>-Onda gives neither specific <u>COMPOSITIONS</u> to produce the claimed lattice mismatches NOR does Onda suggest or indicate in any way that the materials are selected to produce the claimed lattice mismatches.

This position has not been addressed by the Examiner.

With regard to claim 31, such claim includes a resistive layer disposed over the Schottky layer. As noted above, layer 107 is doped and therefore is not a resistive layer.

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In the event any additional fee is required, please charge such amount to Patent and Trademark Office Deposit Account No. 50-0845.

4-22-03

Respectfully submitted,

Date

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